

# Steered Agile Beam Program Open Session Summary



**8 August 2000**



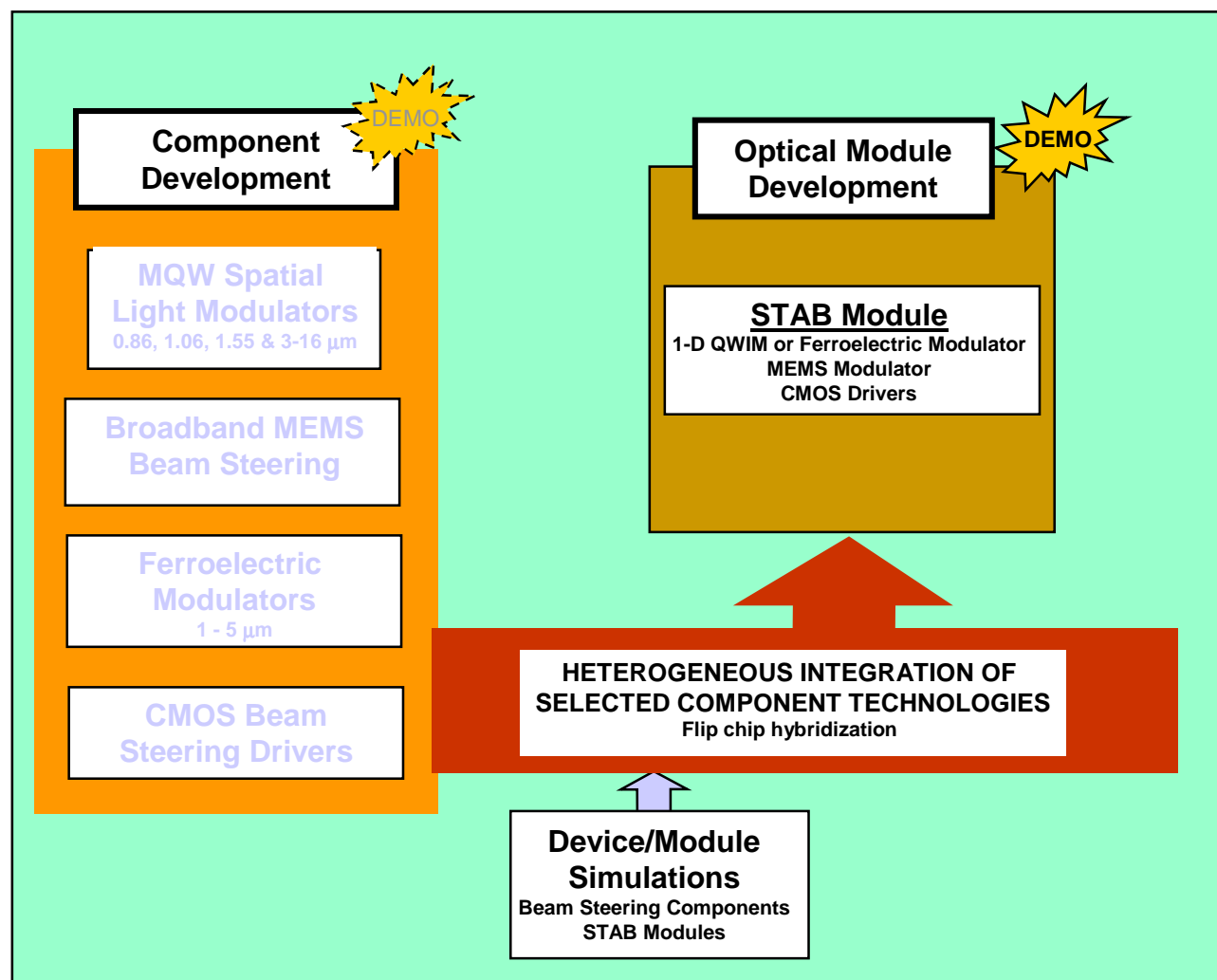
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# Agenda

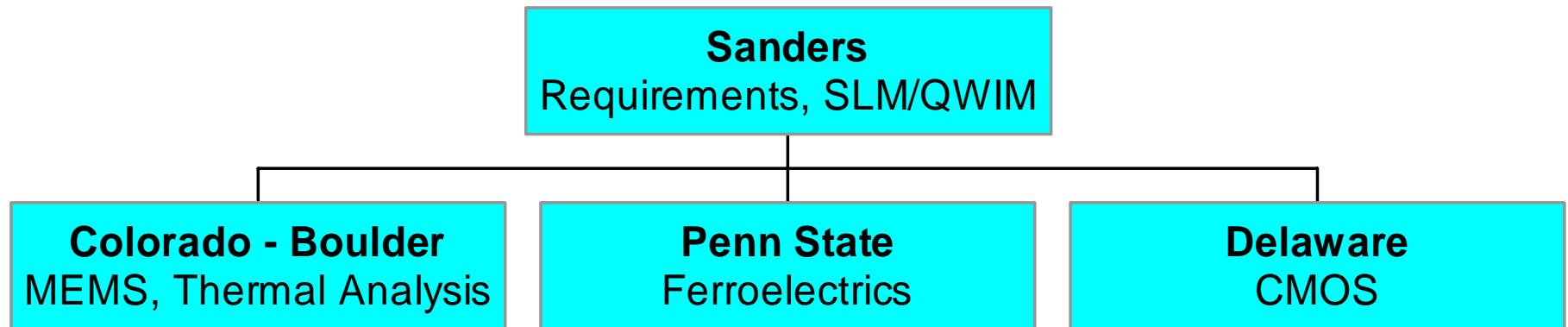
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- **Program and Team Summary**
- **IRCM Focus**
- **Technology Selections**
  - **SLM/QWIM**
  - **MEMS**
  - **Ferroelectrics**
  - **CMOS**
- **Milestones**
- **Integration & Demonstration**
- **Expected Results**

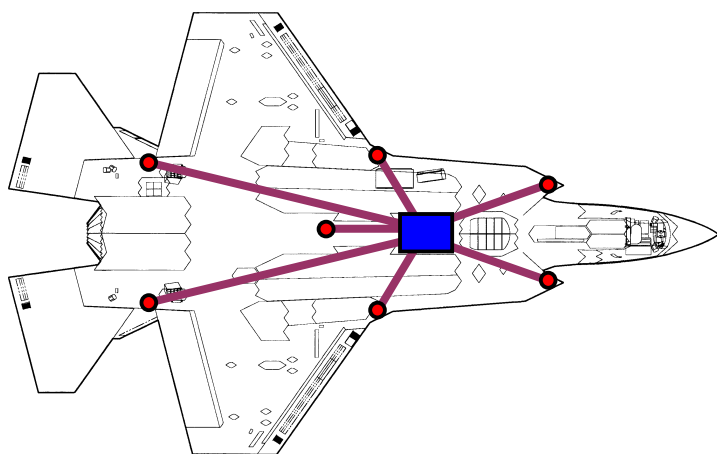
# Program Concept



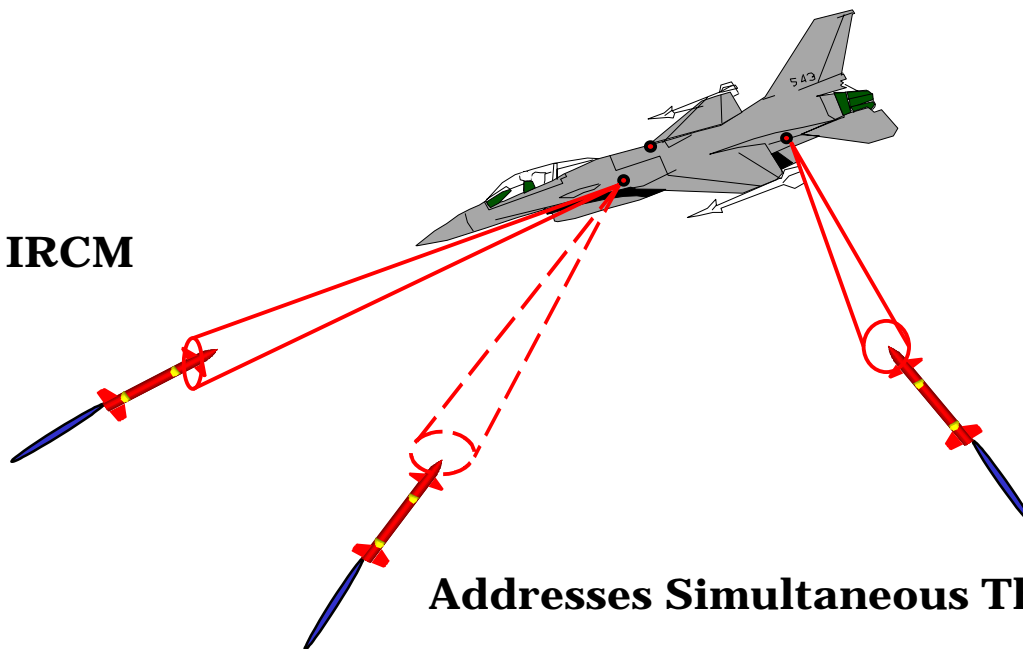
# Team Introduction



# Focus -- IRCM

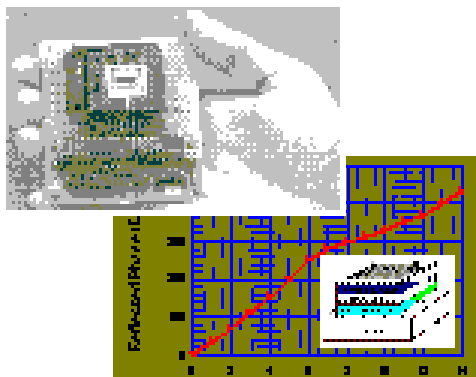


**Distributed Aperture STAB IRCM**



**Addresses Simultaneous Threats**

# Technology Selections



- **SLM / QWIM**

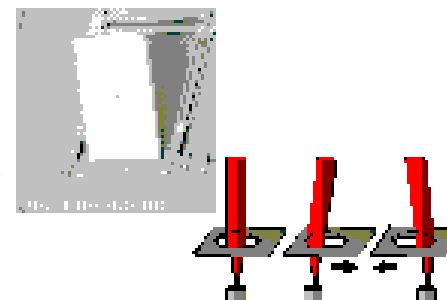
- GHz rate 1-D and 2-D modulator arrays

**Basis:**

- Wavelength
- Switching speed
- Optical damage threshold
- Angular resolution / field of regard

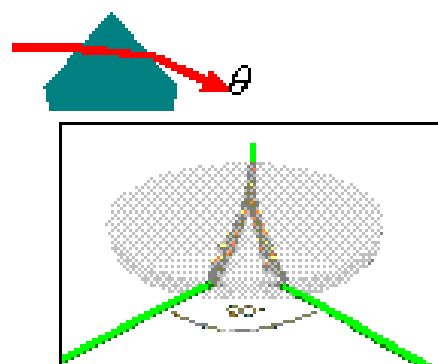
- **MEMS**

- Wideband scan mirrors / microlenses



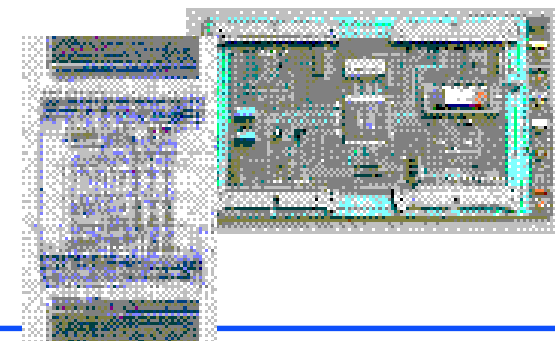
- **Ferroelectrics**

- Precision solid state beam steering

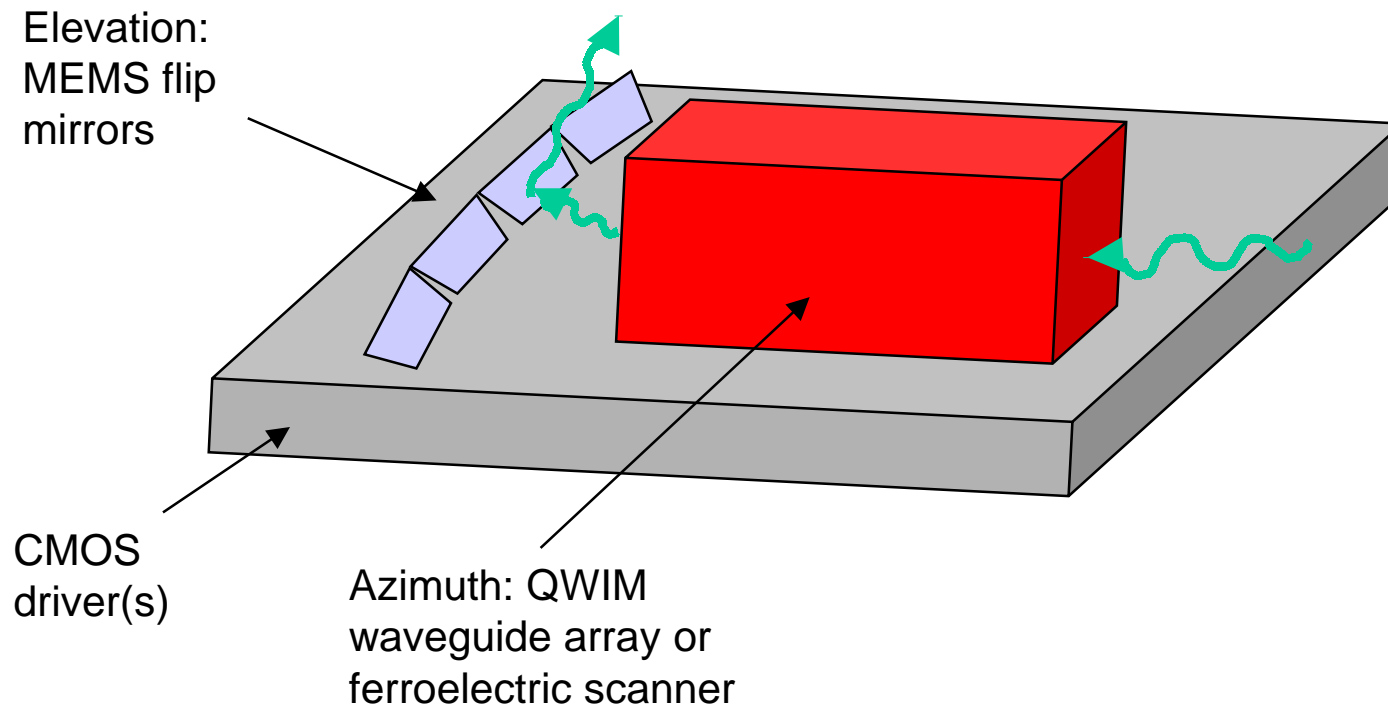


- **CMOS**

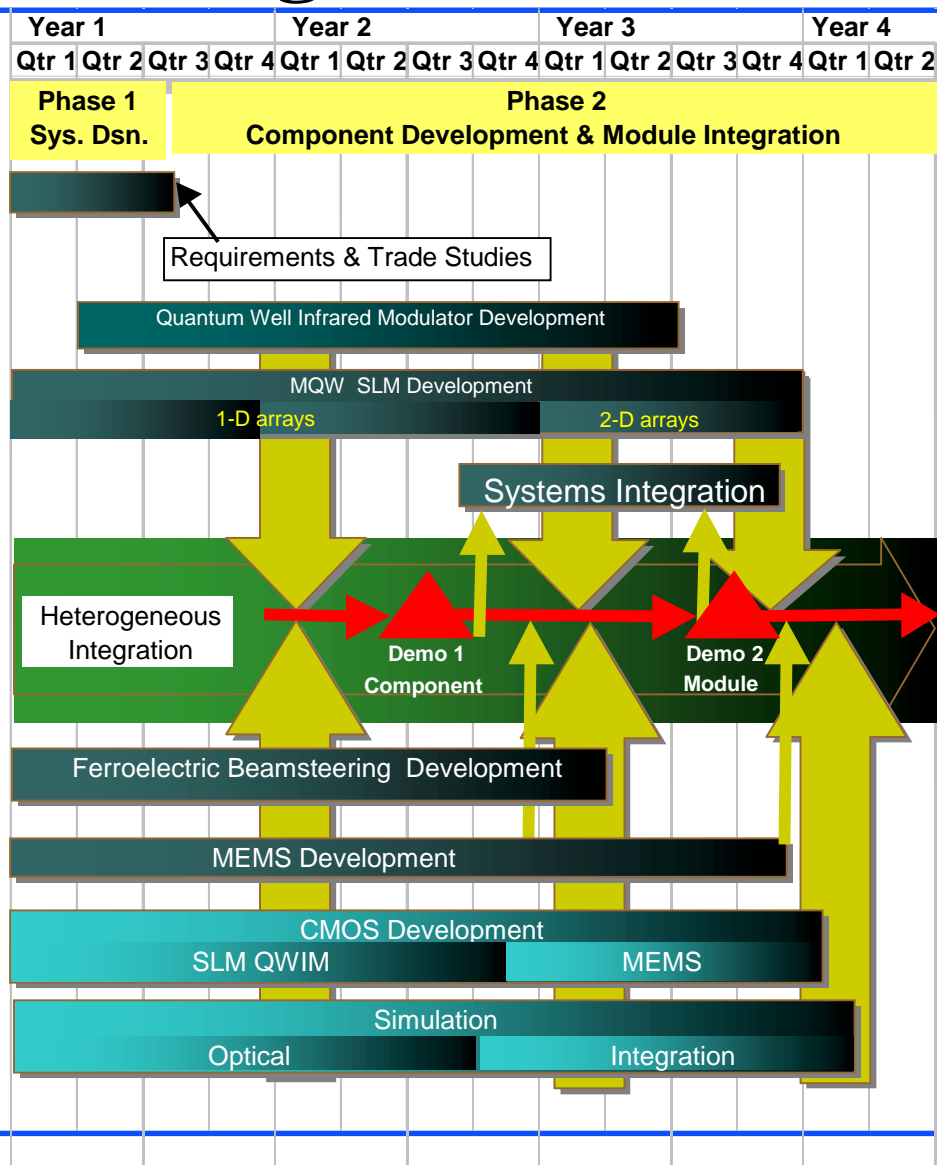
- Chip drivers for arrays / MEMS



# Demonstration Concept



# Program Milestones





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# Expected Results Summary

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- **SLM/QWIM, MEMS, ferroelectric technology progress supporting STAB modules with CMOS drivers**
- **Heterogeneous integration of STAB module supporting next-generation IRCM system concept**